# 863 Report of Test Results

Functional Group ID=RT

#### **Introduction:**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Report of Test Results Transaction Set (863) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to transmit the results of tests performed to satisfy a specified product or process requirement. This includes, but is not limited to, test data such as inspection data, certification data, and statistical process control measurements.

## **Notes:**

This Transaction Set is used for reporting invidual sample test results for Lead and Copper, Chemicals, Radionuclides, Water Quality, Total Coliform and Microbiological samples.

## **Heading:**

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments
Must Use	020	BTR	Beginning Segment for Test Results	M	1		
Not Used	040	REF	Reference Identification	O	12		
Not Used	050	DTM	Date/Time Reference	O	10		
Not Used	060	PID	Product/Item Description	O	200		
Not Used	065	TMD	Test Method	O	1		
Not Used	070	MEA	Measurements	O	20		
			LOOP ID - N1			>1	
	080	N1	Name	O	1		
Not Used	090	N2	Additional Name Information	O	2		
Not Used	100	N3	Address Information	O	2		
Not Used	110	N4	Geographic Location	O	1		
	120	REF	Reference Identification	O	12		
			LOOP ID - PER			>1	
	130	PER	Administrative Communications Contact	О	1		
Not Used	140	REF	Reference Identification	O	>1		n1

#### **Detail:**

	Pos. No.	Seg. <u>ID</u>	Name	Req. Des.	Max.Use	Loop <u>Repeat</u>	Notes and Comments
			LOOP ID - LIN			>1	
	010	LIN	Item Identification	О	1		
	020	PID	Product/Item Description	O	1000		
Not Used	025	TMD	Test Method	0	1		
Not Used	030	MEA	Measurements	0	20		
Not Used	031	PSD	Physical Sample Description	O	>1		
Not Used	032	SPS	Sampling Parameters for Summary Statistics	0	>1		
	034	QTY	Quantity	O	10		
	040	DTM	Date/Time Reference	O	10		

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042         NTE         Note/Special Instruction         O         1           043         NTE         Note/Special Instruction         O         1           045         NTE         Note/Special Instruction         O         1           045         NTE         Note/Special Instruction         O         1           050         REF         Reference Identification         O         1000           LOOP ID - NI         10           051         N1         Name         O         1           Not Used         052         N2         Additional Name Information         O         2           Not Used         053         N3         Address Information         O         2           Not Used         054         N4         Geographic Location         O         1           055         REF         Reference Identification         O         10           056         PER         Administrative Communications Contact         O         3           Not Used         057         QTY         Quantity         O         10           LOOP ID - CID           Dot Used         070         UIT         Unit Detail         O         <	
045   NTE	
Not Used   O50	
LOOP ID - NI	
Not Used         051         N1         Name         O         1           Not Used         052         N2         Additional Name Information         O         2           Not Used         053         N3         Address Information         O         2           Not Used         054         N4         Geographic Location         O         1           055         REF         Reference Identification         O         10           056         PER         Administrative Communications Contact         O         3           Not Used         057         QTY         Quantity         O         10           LOOP ID - CID         >1         >1           Not Used         070         UIT         Unit Detail         O         1           Not Used         090         PSD         Physical Sample Description         O         >1	
Not Used         052         N2         Additional Name Information         O         2           Not Used         053         N3         Address Information         O         2           Not Used         054         N4         Geographic Location         O         1           055         REF         Reference Identification         O         10           056         PER         Administrative Communications Contact         O         3           Not Used         057         QTY         Quantity         O         10           LOOP ID - CID         >1         >1           Not Used         070         UIT         Unit Detail         O         1           Not Used         090         PSD         Physical Sample Description         O         >1	
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Not Used         054         N4         Geographic Location         O         1           055         REF         Reference Identification         O         10           056         PER         Administrative Communications Contact         O         3           Not Used         057         QTY         Quantity         O         10           LOOP ID - CID         >1         >1           Not Used         070         UIT         Unit Detail         O         1           Not Used         090         PSD         Physical Sample Description         O         >1	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Not Used $\begin{array}{c} 056 \\ PER \\ 057 \\ QTY \\ \hline \\ Quantity \\ Quantity \\ \hline \\ Quantity \\ Q$	
Not Used         057         QTY         Quantity         O         10           LOOP ID - CID         >1         >1           Not Used         070         UIT         Unit Detail         O         1           Not Used         090         PSD         Physical Sample Description         O         >1	
LOOP ID - CID         >1           060         CID         Characteristic/Class ID         O         1           Not Used         070         UIT         Unit Detail         O         1           Not Used         090         PSD         Physical Sample Description         O         >1	
060         CID         Characteristic/Class ID         O         1           Not Used         070         UIT         Unit Detail         O         1           Not Used         090         PSD         Physical Sample Description         O         >1	
Not Used070UITUnit DetailO1Not Used090PSDPhysical Sample DescriptionO>1	
Not Used 090 PSD Physical Sample Description O >1	
Not Used 100 SPS Sampling Parameters for Summary Statistics O >1	
Not Used 120 DTM Date/Time Reference O 10	
Not Used 130 REF Reference Identification O 10	
LOOP ID - MEA >1	
150 MEA Measurements O 1	
160 DTM Date/Time Reference O 10	
170 REF Reference Identification O 10	
LOOP ID - LM >1	
172 LM Code Source Information O 1	
Must Use 174 LQ Industry Code M >1	
LOOP ID - STA >1	
Not Used 180 STA Statistics O 1	
Not Used 190 DTM Date/Time Reference O 10	
Not Used 195 REF Reference Identification O 10	ļ
LOOP ID - LM >1	
Not Used 197 LM Code Source Information O 1	
Not Used 200 LQ Industry Code M >1	
LOOP ID - TMD 100	
201 TMD Test Method O 1	
Not Used 202 MEA Measurements O >1	
Not Used 203 DTM Date/Time Reference O 10	
Not Used 204 REF Reference Identification O 10	
LOOP ID - TSP >1	
Not Used 210 TSP Test Period or Interval O 1	
Not Used 220 MEA Measurements O >1	
Not Used 230 DTM Date/Time Reference O 10	
Not Used 240 REF Reference Identification O 10	
LOOP ID - LM >1	
Not Used 242 LM Code Source Information O 1  Not Used 244 LQ Industry Code M >1	

## **Summary:**

	Pos.	Seg.		Req.		Loop	Notes and		
	No.	ID	<u>Name</u>	Des.	Max.Use	Repeat	Comments		
	005	$\overline{\text{CTT}}$	Transaction Totals	O	1				
Must Use	010	SE	Transaction Set Trailer	M	1				

## **Transaction Set Notes**

1. The REF segment is to be used to send identification numbers associated with party referenced in the PER.

Segment: ST Transaction Set Header

**Position:** 010

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

**Purpose:** Syntax Notes:

To indicate the start of a transaction set and to assign a control number.

**Semantic Notes:** 1 The transaction set identifier (ST01) used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g.,  $810\,$ 

selects the Invoice Transaction Set).

**Comments:** 

>>	Ref. <u>Des.</u> ST01	Data Element 143	Name Transaction Set Identifier Code	Attı M	ributes ID	<u>s</u> 3/3
//	5101	143	Code uniquely identifying a Transaction Set	IVI	Ш	3/3
			'863' X12.41 Report of Test Results.  This implementation of the 863 Report of Test Results is us submission of drinking water test results from laboratories to			ncies.
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	ST02	329	Transaction Set Control Number  Identifying control number that must be unique within the tfunctional group assigned by the originator for a transaction		AN action	<b>4/9</b> set

**Position:** 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: To

To indicate the beginning of a test results transaction set

Syntax Notes: Semantic Notes:

- 1 If BTR01 equals "01", "02", "03", "04", "05", "18" or "19", then BTR06 is required to identify the original test report reference number transmitted.
- 2 BTR02 is the date that this transaction set was created by the sending party.
- **3** BTR03 is the time that this transaction set was created by the sending party.
- 4 BTR05 specifies test results report reference number created by the sending party.

#### **Comments:**

	Ref.	Data	Data Element Summary			
	Des.	Element	Name	Attı	ibutes	
>>	BTR01	353	Transaction Set Purpose Code	M	ID	2/2
	21101		Code identifying purpose of transaction set			_,_
			Code identifying purpose of the transaction set. '00' Original '15' Resubmission			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	BTR02	373	Date Date (YYMMDD)	M	DT	6/6
			Creation date for drinking water test results report. YYMN	MDD		
X	BTR03	337	Time	0	TM	4/8
			Time expressed in 24-hour clock time as follows: HHMM, 6 HHMMSSD, or HHMMSSDD, where H = hours (00-23), N 59), S = integer seconds (00-59) and DD = decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundred to the contract of the contrac	M = m s; dec edths	inutes imal se (00-99	(00- econds
>>	BTR04	755	<b>Report Type Code</b> Code indicating the title or contents of a document, report of	O or sup	ID porting	2/2 g item
			Code identifying the type of report 'RT' Report of test results and Analysis report 'W2' Summary (Safe Drinking Water Report) Refer to 003061 Data Element Dictionary for acceptable co	de va	lues	
>>	BTR05	127	Reference Identification	0	AN	1/30
<i>"</i>	DIRUS	127	Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Number assigned by laboratory for the report.	_		1/30
	BTR06	127	Reference Identification	O	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Required when report is a resubmission to provide original			oer.
X	BTR07	786	Security Level Code	O	ID	2/2
			Code indicating the level of confidentiality assigned by the information following Refer to 003061 Data Element Dictionary for acceptable co			

Segment: N1 Name

Position: 080
Loop: N1
Level: Heading
Usage: Optional

Max Use:

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

**Semantic Notes:** Comments:

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

**Notes:** Two occurrences of the N1 loop are required at this location in the transaction set. One

is required to identify the testing lab submitting the report. The second to identify the

State/agency where the report is being sent.

Ref.	Data	·					
Des.	<b>Element</b>	<u>Name</u>	Att	ributes	<u> </u>		
N101	98	v	$\mathbf{M}$	ID	2/2		
			ion, o	r an inc	lividual		
			_	_			
		•					
N102	93	Name	$\mathbf{X}$	AN	1/35		
		Free-form name					
		Name of the testing lab or State including agency.					
N103	66	Identification Code Qualifier	X	ID	1/2		
			d for I	dentifi	cation		
		· ,					
		'75' State ID number					
		'FN' EPA Laboratory Certification ID					
		Refer to 003061 Data Element Dictionary for acceptable code values.					
N104	67	Identification Code	X	$\mathbf{A}\mathbf{N}$	2/20		
		Code identifying a party or other code					
		Appropriate identification number					
N105	706	<b>Entity Relationship Code</b>	0	ID	2/2		
		Code describing entity relationship					
		Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.			
N106	98	<b>Entity Identifier Code</b>	O	ID	2/2		
		Code identifying an organizational entity, a physical locat	ion, o	r an inc	lividual		
		Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.			
	N101 N102 N103 N104 N105	Des. N101         Element 98           N102         93           N103         66           N104         67           N105         706	Name	N101   98   Entity Identifier Code   M	N101   P8   Entity Identifier Code   M   ID		

Segment: REF Reference Identification

Position: 120
Loop: N1
Level: Heading
Usage: Optional
Max Use: 12

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** 

1 REF04 contains data relating to the value cited in REF02.

This segment must be included in the N1 loop identifying the testing laboratory to convey the PIN when N101 equals 'TL'.

	Ref.	Data	2 <b></b> 2.0			
	Des.	<b>Element</b>	<u>Name</u>	Attr	ributes	
>>	REF01	128	Reference Identification Qualifier	M	ID	2/3
			Code Qualifying the Reference Identification			
			'4A' A number that uniquely identifies a testing laboratory.	. The	numb	er is
			supplied by the state or the federal government.			
	REF02	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			
X	REF03	352	Description	X	AN	1/80
			A free-form description to clarify the related data elements	and t	heir co	ntent
X	REF04	C040	Reference Identifier	O		
			To identify one or more reference numbers or identification	num	bers as	;
			specified by the Reference Qualifier			
X	C04001	128	Reference Identification Qualifier	M	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04002	127	Reference Identification	$\mathbf{M}$	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04004	127	Reference Identification	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04006	127	Reference Identification	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	on Se	t or as	
			specified by the Reference Identification Qualifier			

Segment: PER Administrative Communications Contact

Position: 130
Loop: PER
Level: Heading
Usage: Optional
Max Use: 1

**Purpose:** To identify a person or office to whom administrative communications should be

directed

**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** This segment should be included in the N1 loop identifying the Testing Lab if an

identification of the certifying party is required.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		ributes	<u>s</u>
>>	PER01	366	Contact Function Code	M	ID	2/2
			Code identifying the major duty or responsibility of the pers	son o	r group	)
			named			
			'CE' Certifier			
			Refer to 003061 Data Element Dictionary for acceptable code	de va	lues.	
	PER02	93	Name	O	$\mathbf{A}\mathbf{N}$	1/35
			Free-form name			
			Name of certifying individual.			
X	PER03	365	Communication Number Qualifier	$\mathbf{X}$	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
$\mathbf{X}$	PER04	364	Communication Number	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER05	365	Communication Number Qualifier	$\mathbf{X}$	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
$\mathbf{X}$	PER06	364	Communication Number	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER07	365	Communication Number Qualifier	$\mathbf{X}$	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
$\mathbf{X}$	PER08	364	Communication Number	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are	a co	de whe	n
<b>T</b> 7	DEDAG	440	applicable	•	4 3.7	1 /20
X	PER09	443	Contact Inquiry Reference	0	AN	1/20
			Additional reference number or description to clarify a cont	act n	umber	

Segment: LIN Item Identification

Position: 010
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To specify basic item identification data

**Syntax Notes:** 1 If either LIN04 or LIN05 is present, then the other is required.

- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

#### **Semantic Notes:** 1 LIN01 is the line item identification

**Comments:** 1 See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

**Notes:** 

Note: One LIN loop should be created for each sample being reported. Each LIN loop must start with the LIN segment. A transaction set can accommodate multiple sample reports.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	Att	ributes	
X	LIN01	350	Assigned Identification	O		1/20
			Alphanumeric characters assigned for differentiation within	n a tra	ansacti	on set
>>	LIN02	235	Product/Service ID Qualifier	M	ID	2/2
			Code identifying the type/source of the descriptive number	used	in	
			Product/Service ID (234)			
			'TU' Report Type/Tested Material Identification Number			
>>	LIN03	234	Product/Service ID	M	AN	1/40
			Identifying number for a product or service			
			Sample Category Identification			
			'PB' Lead and Copper			
			'CH' Chemicals			
			'GE' General Samples			
			'RA' Radionuclides			
			'PP' Water Quality			
			'TC' Total Coliform			
	T TNIO 4	225	'MB' Microbiological	37	ID	2/2
>>	LIN04	235	Product/Service ID Qualifier	X	ID :	2/2
			Code identifying the type/source of the descriptive number Product/Service ID (234)	usea	111	
			'S4' Laboratory Sample Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	LIN05	234	Product/Service ID	X	AN	1/40

		Identifying number for a product or service			
		Appropriate sample number as assigned by the lab. Used a	as an i	dentifi	cation
T TNO	225	of the sample.	<b>T</b> 7	ID	2/2
LIN06	235	Product/Service ID Qualifier  Code identifying the type/serves of the descriptive number	X r usad	ID in	2/2
		Code identifying the type/source of the descriptive number Product/Service ID (234)	r usea	Ш	
		'S5' State Sample Identification			
		Refer to 003061 Data Element Dictionary for acceptable c	ode va	alues.	
LIN07	234	Product/Service ID	X	AN	1/40
		Identifying number for a product or service			
		Appropriate sample as assigned by the state. Used as an ic	lentifi	cation	of the
LIN08	235	sample.  Product/Service ID Qualifier	X	ID	2/2
LINUO	233	Code identifying the type/source of the descriptive numbe			212
		Product/Service ID (234)	i uscu	111	
		'S6' Previous sample identification			
		Notes. Descriped orders consult toms in DID04 consult DD (D	4)	DI	
		Note: Required when sample type in PID04 equals RP (R (Replacement for invalid result).	epeat)	or KI	
		Refer to 003061 Data Element Dictionary for acceptable c	ode va	alues.	
LIN09	234	Product/Service ID	X	$\mathbf{A}\mathbf{N}$	1/40
		Identifying number for a product or service			
		Note: Appropriate sample number as assigned by the lab	or the	state. I	Jsed as
LIN10	235	an identification of the previous sample.  Product/Service ID Qualifier	X	ID	2/2
LIMIU	255	Code identifying the type/source of the descriptive numbe			212
		Product/Service ID (234)	r useu	***	
		'TU' Lab Composite Sample Number			
		Note: Required when sample is part of a composite.			
		Refer to 003061 Data Element Dictionary for acceptable c	ode va	alues.	
LIN11					
	234	Product/Service ID	X	AN	1/40
	234	Product/Service ID  Identifying number for a product or service		AN	1/40
	234	Identifying number for a product or service  Note: Appropriate composite sample number as assigned	X by the		
I IN12		Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite samples in the composite samples.	X by the osite.	e lab or	the
LIN12	234	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier	X by the osite. X	e lab or	
LIN12		Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)	X by the osite. X r used	e lab or  ID  in	the
	235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable composite in the composite samples in	by the osite. X r used	e lab or  ID  in  alues.	the 2/2
LIN12		Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable correct/Service ID	X by the osite. X r used	e lab or  ID  in	the
LIN13	235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite reproduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable composite reproduct/Service ID  Identifying number for a product or service	by the osite. X r used ode va X	ID in alues.	the 2/2 1/40
	235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable correct/Service ID	by the osite. X r used ode va X	ID in alues. AN	the 2/2
LIN13	235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable composite Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)	by the osite.  X r used ode va  X r used	ID in alues.  AN ID in	the 2/2 1/40
LIN13 LIN14	235 234 235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable composite roduct/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable composite roduct/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable composite roduct/Service ID (234)	by the osite. X r used ode va X r used ode va	ID in alues.  AN ID in alues.	the 2/2 1/40 2/2
LIN13	235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite.  X r used ode va  X r used	ID in alues.  AN ID in	the 2/2 1/40
LIN13 LIN14 LIN15	235 234 235 234	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service	by the osite. X r used ode va X x r used ode va X x	ID in alues.  AN ID in alues.  AN	the 2/2 1/40 2/2 1/40
LIN13 LIN14	235 234 235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used ode va X X r used X	ID in alues.  AN ID in alues.  AN ID	the 2/2 1/40 2/2
LIN13 LIN14 LIN15	235 234 235 234	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite roduct/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)	by the osite. X r used ode va X r used ode va X r used x r used	ID in alues. AN ID in alues. AN ID in ID in	the 2/2 1/40 2/2 1/40
LIN13 LIN14 LIN15 LIN16	235 234 235 234 235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier  Code identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)	by the osite. X r used ode va X x r used ode va X r used ode va x ode va	ID in alues. AN ID in alues. AN ID in alues. AN ID in alues.	the 2/2 1/40 2/2 1/40 2/2
LIN13 LIN14 LIN15	235 234 235 234	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier  Code identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used ode va X r used x r used	ID in alues. AN ID in alues. AN ID in ID in	the 2/2 1/40 2/2 1/40
LIN13 LIN14 LIN15 LIN16	235 234 235 234 235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier  Code identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Identifying number for a product or service	by the osite. X r used ode va X r used ode va X r used ode va X x r used ode va X	ID in alues. AN ID in ID in AN AN AN AN	the 2/2 1/40 2/2 1/40 2/2 1/40
LIN13 LIN14 LIN15 LIN16	235 234 235 234 235	Identifying number for a product or service  Note: Appropriate composite sample number as assigned state. Used as an identification of all samples in the composite Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID  Identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID Qualifier  Code identifying number for a product or service  Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID Qualifier  Code identifying the type/source of the descriptive number Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID (234)  Refer to 003061 Data Element Dictionary for acceptable of Product/Service ID	by the osite. X r used ode va X r used ode va X r used ode va X X r used ode va X X	in alues. AN ID in alues. AN ID in alues. AN ID in ID in ID in ID	the 2/2 1/40 2/2 1/40 2/2

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			Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable	code va	alues.	
X	LIN19	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN21	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN23	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN25	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN27	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN29	234	Product/Service ID Identifying number for a product or service	X	AN	1/40
X	LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number Product/Service ID (234) Refer to 003061 Data Element Dictionary for acceptable			2/2
X	LIN31	234	Product/Service ID Identifying number for a product or service	X	AN	1/40

Segment: PID Product/Item Description

Position: 020
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 1000

**Purpose:** To describe a product or process in coded or free-form format

**Syntax Notes:** 1 If PID04 is present, then PID03 is required.

- At least one of PID04 or PID05 is required.If PID07 is present, then PID03 is required.
- 4 If PID08 is present, then PID03 is required.

**Semantic Notes: 1** 

- 1 Use PID03 to indicate the organization that publishes the code list being referred to.
- 2 PID04 should be used for industry-specific product description codes.
- 3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4 PID09 is used to identify the language being used in PID05.

**Comments:** 

- 1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3 PID07 specifies the individual code list of the agency specified in PID03.

**Notes:** 

Note: For a Test Results report at least one iteration of PID is required for each sample to identify Sample Type and Compliance.

This Segement is REQUIRED

			Data Element Summary			
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	Att	ribute	<u>s</u>
>>	PID01	349	Item Description Type	$\mathbf{M}$	ID	1/1
			Code indicating the format of a description			
			Code indicating the format of a description.			
			'S' Structured			
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
>>	PID02	750	Product/Process Characteristic Code	O	ID	2/3
			Code identifying the general class of a product or process	charac	cteristic	c
			Code Values			
			'CO' Collection Method Code			
			'LC' Lead/Copper Sample Type			
			'RM' Results Method Code			
			'RR' Rejection Reason			
			'ST' Sample Type.			
			Note: At least one ST (Sample Type) is required for each	I INI L	oon If	complo
			is Lead/Copper one LC is also required.	LIIVI	50p. 11	sample
			Refer to 003061 Data Element Dictionary for acceptable c	ode va	lues.	
>>	PID03	559	Agency Qualifier Code	M	ID	2/2
	11000		Code identifying the agency assigning the code values	TAT	ш	<i>=1 =</i>
			'EP' Environmental Protection Agency			
			Refer to 003061 Data Element Dictionary for acceptable c	ode w	luge	
	DIDA	751	•			1/10
	PID04	751	Product Description Code	X	AN	1/12
			A code from an industry code list which provides specific characteristic	data a	bout a	product
			A code from the industry code list			

			(See Appendix B)		
			Note: At least one code value from the Sample Type code list is each loop.	require	ed for
X	PID05	352	<b>Description</b> X	AN	1/80
			A free-form description to clarify the related data elements and	their c	ontent
X	PID06	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is bei	ID ng des	2/2 cribed
			Refer to 003061 Data Element Dictionary for acceptable code v	alues.	
X	PID07	822	Source Subqualifier O A reference that indicates the table or text maintained by the So	AN ource Q	1/15 qualifier
	PID08	1073	Yes/No Condition or Response Code O	ID	1/1
			Code indicating a Yes or No condition or response		
			Compliance indication		
			'Y' For compliance		
			'N' Not for compliance		
			Note: This element is required when PID02 equals 'ST' (Sampl	е Туре	) to
			indicate if the sample was submitted for compliance purposes.		
			Refer to 003061 Data Element Dictionary for acceptable code v	alues.	
X	PID09	819	Language Code Code designating the language used in text, from a standard commaintained by the International Standards Organization (ISO 6		2/3

Segment: QTY Quantity

Position: 034
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify quantity information

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data	·			
	Des.	<b>Element</b>	<u>Name</u>	Att	ribute	<u>s</u>
>>	QTY01	673	Quantity Qualifier	M	ID	2/2
			Code specifying the type of quantity			
			'SW' Sample Amount			
			'99' Quantity Used for Testing			
			Refer to 003061 Data Element Dictionary for acceptable co			
>>	QTY02	380	<b>Quantity</b> Numeric value of quantity	M	R	1/15
			Volume of the sample			
	QTY03	C001	Composite Unit of Measure	O		
			To identify a composite unit of measure(See Figures Apperuse.)	ndix f	or exa	mples of
>>	C00101	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being express which a measurement has been taken	sed, o	r manı	ner in
			'ML' milliliter			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	alues.	
X	C00102	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00103	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00104	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being express	sed, c	r manı	ner in
			which a measurement has been taken			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C00105	1018	Exponent	O	R	1/15
***	G00406	< 40	Power to which a unit is raised			4.40
X	C00106	649	Multiplier	O	R	1/10
v	C00107	255	Value to be used as a multiplier to obtain a new value	•	ID	2/2
X	C00107	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being express	<b>O</b>	ID	2/2
			which a measurement has been taken	seu, c	n mam	ilei iii
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	alues.	
X	C00108	1018	Exponent	0	R	1/15
	200100	1010	Power to which a unit is raised	9		1,10
X	C00109	649	Multiplier	O	R	1/10
	200107	J./	Value to be used as a multiplier to obtain a new value	•		_,_,
X	C00110	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being express	_		
ED 1 0 601						24 1005

			which a measurement has been taken Refer to 003061 Data Element Dictionary for acceptable c	ode va	ılues.	
X	C00111	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00112	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			
X	C00113	355	Unit or Basis for Measurement Code	O	ID	2/2
			Code specifying the units in which a value is being expres	ssed, o	r manı	ner in
			which a measurement has been taken	ada w	1,,,,,	
			Refer to 003061 Data Element Dictionary for acceptable c	oue va		
$\mathbf{X}$	C00114	1018	Exponent	O	R	1/15
			Power to which a unit is raised			
X	C00115	649	Multiplier	O	R	1/10
			Value to be used as a multiplier to obtain a new value			

Segment: DTM Date/Time Reference

Position: 040
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM06 is required.

2 If either DTM06 or DTM07 is present, then the other is required.

**Semantic Notes:** 

**Comments:** 

**Notes:** One DTM segment per LIN loop is required to identify collection date.

	D 6	<b>D</b> 4	Data Element Summary			
	Ref.	Data	Nama	A 44	4 a.	~
	<u>Des.</u> DTM01	Element 374	Name Date/Time Qualifier	M	ributes ID	3/3
>>	DIMUI	3/4	Code specifying type of date or time, or both date and time		Ш	3/3
			'906' Collection Date			
			'050' Lab Receipt Date			
			'090' Report Start Date			
			'091' Report End Date			
			'406' Composite Date			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	DTM02	373	Date	X	DT	6/6
	2111102	0.0	Date (YYMMDD)			0, 0
	DTM03	337	Time	X	TM	4/8
			Time expressed in 24-hour clock time as follows: HHMM,	or HI		
			HHMMSSD, or HHMMSSDD, where H = hours (00-23), N			
			59), S = integer seconds (00-59) and DD = decimal second			*
			are expressed as follows: $D = tenths (0-9)$ and $DD = hundred$			
			Expressed as HHMM			
X	DTM04	623	Time Code	O	ID	2/2
			Code identifying the time. In accordance with International	l Star	ndards	
			Organization standard 8601, time can be specified by a + or			
			indication in hours in relation to Universal Time Coordina			
			since + is a restricted character, + and - are substituted by	P and	M in t	he
			codes that follow			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	DTM05	624	Century	0	N0	2/2
			The first two characters in the designation of the year (CC)			
	DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3
			Code indicating the date format, time format, or date and t	ime f	ormat	
			'D8' Date expressed CCYYMMDD			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	<b>DTM07</b>	1251	Date Time Period	X	$\mathbf{A}\mathbf{N}$	1/35
			Expression of a date, a time, or range of dates, times or date	es an	d times	8
			Expressed as CCYYMMDD			

Segment: NTE Note/Special Instruction

Position: 042
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12

standard implementations, is not machine processable. The use of the NTE segment

should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<b>Attributes</b>		
$\mathbf{X}$	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which t	he no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
>>	NTE02	352	Description	M	AN	1/80
			A free-form description to clarify the related data elements	and t	heir co	ontent

Segment: NTE Note/Special Instruction

Position: 043
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

Comments: 1 The NTE segment permits free-form information/data which, under ANSI X12

standard implementations, is not machine processable. The use of the NTE segment

should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<b>Attributes</b>		
$\mathbf{X}$	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which	the no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	NTE02	352	Description	M	AN	1/80
			A free-form description to clarify the related data elements	s and	their c	ontent

Segment: NTE Note/Special Instruction

Position: 045
Loop: LIN
Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To transmit information in a free-form format, if necessary, for comment or special

instruction

Syntax Notes: Semantic Notes:

**Comments:** 

1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	<b>Attributes</b>		
$\mathbf{X}$	NTE01	363	Note Reference Code	O	ID	3/3
			Code identifying the functional area or purpose for which	the no	te app	lies
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	NTE02	352	Description	M	AN	1/80
			A free-form description to clarify the related data elements	s and	their c	ontent

Segment: REF Reference Identification

Position: 050
Loop: LIN
Level: Detail
Usage: Optional
Max Use: 1000

**Purpose:** To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

**Comments:** 

**Notes:** 

At least one occurrence of the REF segment is required in the LIN loop if the sample is part of a RAD composite.

	Ref.	Data	·			
	Des.	<b>Element</b>	<u>Name</u>	Att	ributes	<u>i</u>
>>	REF01	128	Reference Identification Qualifier	M	ID	2/3
			Code Qualifying the Reference Identification			
			'SJ' Composite Quarter/ Set Number			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier See Appendix I	on Se	et or as	
X	REF03	352	Description	X	AN	1/80
21	KLI 03	332	A free-form description to clarify the related data elements			
X	REF04	C040	Reference Identifier	O		
			To identify one or more reference numbers or identification	ı num	bers as	S
			specified by the Reference Qualifier			
X	C04001	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification		_	
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C04002	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier	on se	et or as	
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04004	127	Reference Identification	$\mathbf{X}$	AN	1/30
			Reference information as defined for a particular Transaction	on Se	et or as	
<b>T</b> 7	G0.400.	400	specified by the Reference Identification Qualifier	<b>.</b>	-	2 /2
X	C04005	128	Reference Identification Qualifier Code Qualifying the Reference Identification	X	ID	2/3
			Refer to 003061 Data Element Dictionary for acceptable co	do ve	duoc	
v	C04006	107	Reference Identification			1/20
X	CU4000	127	Reference information as defined for a particular Transaction	X on Se	AN et or as	1/30
			specified by the Reference Identification Qualifier	J11 DC	or us	

N<sub>1</sub> Name **Segment:** 

**Position:** 051 Loop: N1 Level: Detail Usage: Optional

Max Use:

**Purpose:** To identify a party by type of organization, name, and code

**Syntax Notes:** At least one of N102 or N103 is required.

If either N103 or N104 is present, then the other is required.

**Semantic Notes: Comments:** 

1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

N105 and N106 further define the type of entity in N101.

At least two occurrences of the N1 loop are required at this location in the transaction **Notes:** 

set. One is required to identify the water system. The second should identify the water facility. A third iteration is allowed to identify the sampling point. Water system and water facility require use of the identification number. Sampling location may be

designated either by identification number or name.

	Ref.	Data						
	Des.	<b>Element</b>	<u>Name</u>	Att	ributes	<u> </u>		
>>	N101	98	Entity Identifier Code	M	ID	2/2		
			Code identifying an organizational entity, a physical location	on, or	an inc	lividual		
			'FA' Water Facility					
			'W9' Sampling Location					
			'WS' Water System					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
	N102	93	Name	X	AN	1/35		
			Free-form name					
			The name of the water system, water facility or sampling lo	catio	n			
>>	N103	66	Identification Code Qualifier	X	ID	1/2		
			Code designating the system/method of code structure used	for I	dentifi	cation		
			Code (67)					
			Code identifying the number in N104					
			'FA' Facility					
				,				
			Refer to 003061 Data Element Dictionary for acceptable co					
>>	N104	67	Identification Code	X	AN	2/20		
			Code identifying a party or other code					
			Appropriate identification number					
X	N105	706	<b>Entity Relationship Code</b>	O	ID	2/2		
			Code describing entity relationship					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			
X	N106	98	<b>Entity Identifier Code</b>	O	ID	2/2		
			Code identifying an organizational entity, a physical location, or an individual					
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.			

Segment: REF Reference Identification

Position: 055
Loop: N1
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

**Comments:** 

**Notes:** At least one occurrence of the REF is required in the LIN/N1 loop if PID04 equals RP Repeat sample.

	Ref.	Data	Data Delicit Saimary			
	Des.	<b>Element</b>	<u>Name</u>	Att	ributes	-
>>	REF01	128	Reference Identification Qualifier Code Qualifying the Reference Identification	M	ID	2/3
			'7D' Tester Identification			
			'7E' Collector Identification Code			
			'7F' Repeat Location '7G' Data Quality Reject Reason			
			'7H' EPA Test Type Purpose Code			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier	on Se	et or as	
<b>3</b> 7	DEE03	252	See Appendix B	<b>X</b> 7	A NT	1 /00
X	REF03	352	<b>Description</b> A free-form description to clarify the related data elements	X and	AN their co	1/80 ontent
X	REF04	C040	Reference Identifier	o		
			To identify one or more reference numbers or identification	ı num	bers as	3
<b>T</b> 7	G0.4004	400	specified by the Reference Qualifier	3.5		2 /2
X	C04001	128	Reference Identification Qualifier Code Qualifying the Reference Identification	M	ID	2/3
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	C04002	127	Reference Identification	M	AN	1/30
			Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier	on Se	et or as	
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C04004	127	<b>Reference Identification</b> Reference information as defined for a particular Transacti	X on So	AN	1/30
			specified by the Reference Identification Qualifier	on se	t or as	
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	C04006	127	Reference Identification  Performed information as defined for a particular Transacti	X on So	AN	1/30
			Reference information as defined for a particular Transacti specified by the Reference Identification Qualifier	on se	i or as	

Segment: **PER** Administrative Communications Contact

Position: 056
Loop: N1
Level: Detail
Usage: Optional
Max Use: 3

**Purpose:** To identify a person or office to whom administrative communications should be

directed

**Syntax Notes:** 1 If either PER03 or PER04 is present, then the other is required.

- 2 If either PER05 or PER06 is present, then the other is required.
- 3 If either PER07 or PER08 is present, then the other is required.

**Semantic Notes:** Comments:

**Notes:** This segment should be included in the N1 loop identifying the name of the sample

collector if this information is required.

	Ref.	Data	2 <b></b> 2.0			
	Des.	<b>Element</b>	<u>Name</u>		ributes	<u>i</u>
>>	PER01	366	Contact Function Code	M	ID	2/2
			Code identifying the major duty or responsibility of the pers	on o	r group	)
			named 'SL' Collector			
			SL Conector			
			Refer to 003061 Data Element Dictionary for acceptable code	de va	lues.	
	PER02	93	Name	O	$\mathbf{A}\mathbf{N}$	1/35
			Free-form name			
			Name of the sample collector.			
X	PER03	365	Communication Number Qualifier	$\mathbf{X}$	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable code	de va	lues.	
X	PER04	364	Communication Number	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER05	365	Communication Number Qualifier	$\mathbf{X}$	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
X	PER06	364	Communication Number	$\mathbf{X}$	AN	1/80
			Complete communications number including country or are applicable	a coo	de whe	n
X	PER07	365	Communication Number Qualifier	$\mathbf{X}$	ID	2/2
			Code identifying the type of communication number			
			Refer to 003061 Data Element Dictionary for acceptable coo	de va	lues.	
X	PER08	364	Communication Number	$\mathbf{X}$	AN	1/80
			Complete communications number including country or are	a coo	de whe	n
			applicable			
X	PER09	443	Contact Inquiry Reference	O	AN	1/20
			Additional reference number or description to clarify a cont	act n	umber	

Segment: CID Characteristic/Class ID

Position: 060
Loop: CID
Level: Detail
Usage: Optional

Max Use:

**Notes:** 

Purpose: To specify the general class or specific characteristic upon which test results are being

reported or are to be taken

**Syntax Notes:** 1 At least one of CID01 CID02 CID04 or CID05 is required.

- If either CID03 or CID04 is present, then the other is required.
  If CID06 is present, then both CID03 and CID04 are required.
- 4 If CID07 is present, then at least one of CID04 or CID05 is required.

**Semantic Notes:** 

**Comments:** 1 CID06 specifies the individual code list of the agency specified in CID03.

2 CID07 refers to whether or not the characteristic identified in CID04 or CID05 or both is affected by the product change. If it is affected, the value is "Y". A value of "N" is used when it is known that it will not be affected. Any other value indicates it

is indeterminate.

At least one iteration of the CID loop is required for each sample processed. There will be a separate CID loop for each analyte tested and reported on. A transaction set can

contain multiple CID loops.

	<b>D</b> 4	<b>.</b>	Data Element Summary			
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>		ribute	_
X	CID01	738	Measurement Qualifier	X	ID	1/3
			Code identifying a specific product or process characteristi	c to v	vhich a	
			measurement applies			
			Refer to 003061 Data Element Dictionary for acceptable co		ilues.	
X	CID02	<b>750</b>	Product/Process Characteristic Code	X	ID	2/3
			Code identifying the general class of a product or process of	charac	eteristic	
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	CID03	559	Agency Qualifier Code	$\mathbf{X}$	ID	2/2
			Code identifying the agency assigning the code values			
			'EP' EPA Analyte Code List			
			'CA' Chemical Abstract System Code List			
			Note: Choose either the EPA or CAS Code List			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
>>	CID04	751	<b>Product Description Code</b>	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/12
			A code from an industry code list which provides specific	data a	bout a	product
			characteristic			
			Appropriate code value from the above list			
	CID05	352	Description	$\mathbf{X}$	$\mathbf{A}\mathbf{N}$	1/80
			A free-form description to clarify the related data elements	and	their co	ontent
			Analyte name			
X	CID06	822	Source Subqualifier	0	AN	1/15
			A reference that indicates the table or text maintained by the	ne So	urce Q	
	CID07	1073	Yes/No Condition or Response Code	O	ID	1/1
			Code indicating a Yes or No condition or response			
			Use to indicate Microbe presence or absence			
			'Y' Microbes present			
			'N' Microbes not present			
			Refer to 003061 Data Element Dictionary for acceptable co	de v	lues	

MEA Measurements **Segment: Position:** 150 Loop: **MEA** Level: Detail Usage: Optional Max Use: **Purpose:** To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001) **Syntax Notes:** At least one of MEA03 MEA05 MEA06 or MEA08 is required. If MEA05 is present, then MEA04 is required. 3 If MEA06 is present, then MEA04 is required. 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required. 5 Only one of MEA08 or MEA03 may be present. **Semantic Notes:** MEA04 defines the unit of measure for MEA03, MEA05, and MEA06. 1 **Comments:** When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value. All test results should be reported here. A separate CID loop should be used for each **Notes:** test method reported. **Data Element Summary** Ref. Data Des. Element Name Attributes MEA01 737 Measurement Reference ID Code Code identifying the broad category to which a measurement applies 'TR' Test Results 'CO' Concentration 'EN' Environmental conditions 'CT' Counts Note: 'EN' are the data values to be reported reflect the environmental conditions surrounding a situation including but limited to test environments. Refer to 003061 Data Element Dictionary for acceptable code values. MEA02 738 **Measurement Qualifier** ID 1/3 O Code identifying a specific product or process characteristic to which a measurement applies 'ADM' Dye Manufacturing Units 'AGI' Aggressive Index 'CRF' Free Chlorine Residual 'CRT' Total Chlorine Residual 'CTT' Contact Time 'FLV' Flavor Threshold 'LAI' Langlier Index 'BR' Luminance (brightness) 'PX' Purity 'COL' Color Units 'ABO' Absorbance 'OTH' Odor Threshold 'FR' Flow Rate 'PHA' pH Measurement 'TUR' Turbidity

MEA03 739 Measurement Value X R 1/20

'OBT' Observed Temperature (Sample Water Temperature)

Refer to 003061 Data Element Dictionary for acceptable code values.

'FLV' Flavor Threshold

The value of the measurement

#### MEA04 C001 Composite Unit of Measure X

To identify a composite unit of measure(See Figures Appendix for examples of use.)

'UN' Unit

'ML' Milliliter

'LT' Liter

'ML::100' 100Milliliters

'ML::400' 400Milliliters

'GA' Gallon

'GA::100' 100 Gallons

'GA::400' 400 Gallons

'CE' Degrees Celsius

'FA' Degrees Fahnenheit

'M1' Milligrams per liter

'59' Parts per million

'MC:::LT:-1' Micrograms per liter

'61' Parts per Billion

'R8::.001' Millirems

'R8::.001:LT:-1::YR:-1' Millirems per liter per year

'4D::.000000000001:LT:-1' Picocuries per liter

'GR::.000000001:LT:-1' Nanograms per liter

'MR::.000000001' Nanometers

'GE' Pounds per Gallon

'87' Pounds per Cubic foot

'ZP::1000000:LT:-1 Millions of fibers per liter

'NR:::CM:-1' Microhos per centimeter

#### C00101 355 Unit or Basis for Measurement Code

X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

'UN' Unit

'ML' Milliliter

'LT' Liter

'GA' Gallon

'CE' Degrees Celsius

'FA' Degrees Fahrenheit

'FK' Fibers

'M1' Milligrams per Liter

'59' Parts per Million

'MC' Micrograms per Liter

'61' Parts per Billion

'R8' Millirems

'4D' Picocuries per Liter

'GR' Nanograms per liter

'MR' Nanometers

'GE' Pounds per Gallon

'87' Pounds per Cubic Foot

'ZP' Million of Fibers per liter.....

'NR' Microhos per Centimeter.....

'FK' Fibers

Refer to 003061 Data Element Dictionary for acceptable code values.

C00102 1018 Exponent O R 1/15

Power to which a unit is raised

C00103 649 Multiplier O R 1/10

		Value to be used as a multiplier to obtain a new value			
		100			
		400			
		1000000			
		.001			
		.00000000001			
		.000000001			
C00104	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		'LT' Liter			
		'CM' Centimeter	_	_	
		Refer to 003061 Data Element Dictionary for acceptable			
C00105	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
		'-1'			
C00106	649	Multiplier	O	R	1/10
		Value to be used as a multiplier to obtain a new value			
C00107	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		'YR' Per Year			
		Refer to 003061 Data Element Dictionary for acceptable	code va	ılues.	
C00108	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
		'-1'			
C00109	649	Multiplier	O	R	1/10
		Value to be used as a multiplier to obtain a new value			
C00110	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		Refer to 003061 Data Element Dictionary for acceptable	code va	ılues.	
C00111	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
C00112	649	Multiplier	O	R	1/10
		Value to be used as a multiplier to obtain a new value			
C00113	355	Unit or Basis for Measurement Code	O	ID	2/2
		Code specifying the units in which a value is being expre	essed, o	r man	ner in
		which a measurement has been taken			
		Refer to 003061 Data Element Dictionary for acceptable	code va	ılues.	
C00114	1018	Exponent	O	R	1/15
		Power to which a unit is raised			
C00115	649	Multiplier	O	R	1/10
C00115		Value to be used as a multiplian to obtain a new value			
C00113		Value to be used as a multiplier to obtain a new value			
MEA05	740	Range Minimum	X	R	1/20
				R	1/20
		Range Minimum		R	1/20
		Range Minimum  The value specifying the minimum of the measurement r Minimum regulatory or laboratory detection level.	ange		
		Range Minimum  The value specifying the minimum of the measurement r Minimum regulatory or laboratory detection level.  Note: To convey the minimum regulatory or minimum level.	ange		
		Range Minimum  The value specifying the minimum of the measurement r Minimum regulatory or laboratory detection level.	ange		

 $\mathbf{X}$ 

	MEA07	935	Measurement Significance Code	O	ID	2/2
			Code used to benchmark, qualify or further define a measur	remei	nt valu	e
			'07' Less than			
			Note: Used to convey the fact that the test results were less identified in MEA05.	than	the le	vel
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	MEA08	936	Measurement Attribute Code	X	ID	2/2
			Code used to express an attribute response when a numeric value cannot be determined	meas	sureme	ent
			'05' Undetectable			
			'44' Not reportable/Not applicable			
			Note: Used when the test results are either below detection reporting level.	level	or reg	ulatory
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that i	O s beir	ID ng desc	2/2 cribed
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	MEA10	1373	Measurement Method or Device The method or device used to record the measurement	0	ID	2/4
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	

Segment: DTM Date/Time Reference

Position: 160
Loop: MEA
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify pertinent dates and times

**Syntax Notes:** 1 At least one of DTM02 DTM03 or DTM06 is required.

2 If either DTM06 or DTM07 is present, then the other is required.

**Semantic Notes:** Comments:

			Data Element Summary			
	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	Att	ributes	<u> </u>
>>	DTM01	374	Date/Time Qualifier	M	ID	3/3
			Code specifying type of date or time, or both date and time			
			'090' Analysis Start Date			
			'091' Analysis Completion Date			
			'621' State Notification Date			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
X	DTM02	373	Date	$\mathbf{X}$	DT	6/6
			Date (YYMMDD)			
	DTM03	337	Time	$\mathbf{X}$	TM	4/8
			Time expressed in 24-hour clock time as follows: HHMM,	or HI	HMMS	S, or
			HHMMSSD, or HHMMSSDD, where $H = hours (00-23)$ , $M = hours (00-23)$			
			59), $S = integer seconds (00-59)$ and $DD = decimal seconds$	s; dec	imal s	econds
			are expressed as follows: $D = tenths (0-9)$ and $DD = hundressed (0-9)$	edths	(00-99)	))
			Expressed as HHMM			
X	DTM04	623	Time Code	O	ID	2/2
			Code identifying the time. In accordance with International			
			Organization standard 8601, time can be specified by a + o			
			indication in hours in relation to Universal Time Coordinat			
			since + is a restricted character, + and - are substituted by l	and	M in t	he
			codes that follow	1	1	
<b>T</b> 7	D	<b>60.4</b>	Refer to 003061 Data Element Dictionary for acceptable co			2 (2
X	DTM05	624	Century The first translation in the desired for a fall area (CC)	0	N0	2/2
			The first two characters in the designation of the year (CC)			
	DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3
			Code indicating the date format, time format, or date and to	me f	ormat	
			'D8' Date expressed CCYYMMDD			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	<b>DTM07</b>	1251	Date Time Period	$\mathbf{X}$	AN	1/35
			Expression of a date, a time, or range of dates, times or dat	es an	d times	3
			Expressed as CCYYMMDD			

Segment: REF Reference Identification

Position: 170
Loop: MEA
Level: Detail
Usage: Optional
Max Use: 10

**Purpose:** To specify identifying information

**Syntax Notes:** 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.

**Semantic Notes:** 1 REF04 contains data relating to the value cited in REF02.

Comments: Notes:

Note: If the LIN/CID/MEA loop is used at least one occurrences of the REF is required in the LIN/CID/MEA loop for data quality. A second iteration is required to convey

rejection reason if data quality code equals 'R' .

			<b>Data Element Summary</b>			
>>	Ref. <u>Des.</u> REF01	Data Element 128	Name Reference Identification Qualifier Code Qualifying the Reference Identification	Attı M	ributes ID	2/3
			'D0' Data quality '7D' Tester Identification '7E' Collector Identification '7F' Repeat Location '7G' Data quality reject reason '7H' EPA test purpose code			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	REF02	127	Reference Identification	X	AN	1/30
			Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier Data Quality	on Se	t or as	
			'A' Accepted			
			'R' Rejected 'P' Preliminary			
			Data Quality reject reason 'RC' Requestor Cancelled			
			'IF' Instrument Failure 'LE' Lab Error			
			'OT' Other 'WR' Water System Rejected			
			'LC' Lab not Certified			
			'TNTC' Too Numerous to count 'CNFG' Confluent Growth			
			'TCNG' Turbid Culture No Gas			
			Test Type			
			'C' Confirmed			
X	REF03	352	'P' Presumptive  Description	X	AN	1/80
			A free-form description to clarify the related data elements			
X	REF04	C040	Reference Identifier	O	1	
			To identify one or more reference numbers or identification specified by the Reference Qualifier	num	ibers as	S
<b>X</b> EPA863I	C04001	128	Reference Identification Qualifier	M	ID June	<b>2/3</b> 24, 1997
21 / 10031			50		June	- 1, 1///

			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable code	ve	ılues.	
$\mathbf{X}$	C04002	127	Reference Identification	M	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	ιSe	et or as	
			specified by the Reference Identification Qualifier			
X	C04003	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable code	ve	ılues.	
X	C04004	127	Reference Identification	X	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transaction	Sε	et or as	
			specified by the Reference Identification Qualifier			
X	C04005	128	Reference Identification Qualifier	X	ID	2/3
			Code Qualifying the Reference Identification			
			Refer to 003061 Data Element Dictionary for acceptable code	va:	ılues.	
X	C04006	127	Reference information as defined for a particular Transaction	X Se	AN et or as	1/30
			specified by the Reference Identification Qualifier			

Segment: LM Code Source Information

Position: 172
Loop: LM
Level: Detail
Usage: Optional

Max Use: 1

**Purpose:** To transmit standard code list identification information

Syntax Notes: Semantic Notes:

**Comments:** 1 LM02 identifies the applicable industry code list source information.

>>	Ref. <u>Des.</u> LM01	Data Element 559	Name Agency Qualifier Code Code identifying the agency assigning the code values	Att:	ributes ID	<u>s</u> 2/2
			'EP' Environmental Protection Agency			
			Refer to 003061 Data Element Dictionary for acceptable co	de va	lues.	
	LM02	822	Source Subqualifier	O	$\mathbf{A}\mathbf{N}$	1/15
			A reference that indicates the table or text maintained by the	ie Soi	urce Q	ualifier
			'MCB1' Microbiological table of result 'SSTR' Sample Summary Table of Results			

Segment: LQ Industry Code

Position: 174
Loop: LM
Level: Detail
Usage: Mandatory

Max Use: >1

Purpose: Code to transmit standard industry codesSyntax Notes: 1 If LQ01 is present, then LQ02 is required.

**Semantic Notes:** Comments:

Notes:

Note: This segment is mandatory if a LM segment is present.

X	Ref. <u>Des.</u> LQ01	Data Element 1270	Name Code List Qualifier Code Code identifying a specific industry code list	O	ributes ID	1/3
	LQ02	1271	Refer to 003061 Data Element Dictionary for acceptable co  Industry Code  Code indicating a code from a specific industry code list	X	AN	1/30
			'COLONIES' Colonies 'TUBES' Tubes 'MPN' Most Portable Number 'FCU' Colony forming units 'PFU' Plaque forming units 'CYSTSO' Cysts, observed (Giardia Lamblia) 'OCYSTSO' Oocyst, observed (Cryptosporidium) 'CYSTSC' Cysts, calculated (Giardia Lamblia) 'OCYSTSC' Oocysts, calculated (Cryptosporidium) 'OBSVNS' Observations (for measuring other organism)			

Segment: TMD Test Method

Position: 201
Loop: TMD
Level: Detail
Usage: Optional

Max Use: 1

Ref.

**Purpose:** To describe the nature of the test performed

**Syntax Notes:** 1 If either TMD02 or TMD03 is present, then the other is required.

2 If TMD09 is present, then TMD02 is required.

**Semantic Notes:** 1 TMD07 is the date of the test method as assigned by the issuing organization.

2 TMD08 is the document revision number.

**Comments:** 1 TMD09 specifies the individual code list of the agency specified in TMD02.

Note: The TMD loop is used when an EPA defined analysis method applies to the test

results reported.

Data

	Des.	<b>Element</b>	<u>Name</u>	Att	ribute	<u>s</u>
	TMD01	750	Product/Process Characteristic Code	O	ID	2/3
			Code identifying the general class of a product or process	charac	cteristic	c
			'RM' Results Method Code			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
	<b>TMD02</b>	559	Agency Qualifier Code	X	ID	2/2
			Code identifying the agency assigning the code values			
			'EP' Environment Protection Agency Code List			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va	lues.	
	TMD03	<b>751</b>	<b>Product Description Code</b>	X	$\mathbf{A}\mathbf{N}$	1/12
			A code from an industry code list which provides specific characteristic	data a	bout a	product
			Approved code from code list			
X	TMD04	937	<b>Test Administration Method Code</b>	O	ID	2/2
			Code specifying the method of administering the test			
			Refer to 003061 Data Element Dictionary for acceptable co	ode va		
X	TMD05	938	Test Medium Code	0	ID	2/2
			Code specifying organism on which the test was performed			
			Refer to 003061 Data Element Dictionary for acceptable co			
X	TMD06	352	Description	0	AN	1/80
v	TMD07	272	A free-form description to clarify the related data elements			
X	TMD07	373	Date Date (YYMMDD)	0	DT	6/6
X	TMD08	127	Reference Identification	O	$\mathbf{A}\mathbf{N}$	1/30
			Reference information as defined for a particular Transacti	ion Se	et or as	
W	TMDOO	022	specified by the Reference Identification Qualifier	•	A TAT	1/15
X	TMD09	822	Source Subqualifier  A reference that indicates the table or text maintained by the	O he So	AN urce O	1/15 ualifier
			A reference that indicates the table of text maintained by the	IC 50	uice Q	uamme

CTT Transaction Totals **Segment: Position:** 005 Loop: Level: Summary Usage: Optional Max Use: **Purpose:** To transmit a hash total for a specific element in the transaction set **Syntax Notes:** If either CTT03 or CTT04 is present, then the other is required. If either CTT05 or CTT06 is present, then the other is required. **Semantic Notes: Comments:** 1 This segment is intended to provide hash totals to validate transaction completeness and correctness. Note: One iteration of the CTT segment is required. **Notes: Data Element Summary** Ref. Data Attributes Des. **Element** Name >> CTT01 354 **Number of Line Items** N<sub>0</sub> 1/6 Total number of line items in the transaction set The number in CTT01 element is the total number of LIN segments in the TS. CTT02 347 **Hash Total** O R 1/10 Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value

 $\mathbf{X}$ 

			being hashed. 1.8 Third occurrence of value being hashed occurrence of value being hashed 1855 Hash total 855 Hash total after truncation to three-digit field.			
$\mathbf{X}$	CTT03	81	Weight	X	R	1/10
			Numeric value of weight			
X	CTT04	355	Unit or Basis for Measurement Code	$\mathbf{X}$	ID	2/2
			Code specifying the units in which a value is being expressible a measurement has been taken  Refer to 003061 Data Element Dictionary for acceptable of			ner in
$\mathbf{X}$	CTT05	183	Volume	$\mathbf{X}$	R	1/8
			Value of volumetric measure			
$\mathbf{X}$	CTT06	355	Unit or Basis for Measurement Code	$\mathbf{X}$	ID	2/2
			Code specifying the units in which a value is being expressible a measurement has been taken  Refer to 003061 Data Element Dictionary for acceptable of			ner in
X	CTT07	352	<b>Description</b> A free-form description to clarify the related data element	O as and	AN their c	1/80 ontent

Segment:  ${\bf SE}$  Transaction Set Trailer

**Position:** 010

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:** 

**Semantic Notes:** 

**Comments:** 1 SE is the last segment of each transaction set.

	Ref.	Data				
	Des.	<b>Element</b>	<u>Name</u>	Att	ribute	<u>s</u>
>>	SE01	96	Number of Included Segments	M	N <sub>0</sub>	1/10
			Total number of segments included in a transaction set inc segments	luding	g ST a	nd SE
>>	SE02	329	<b>Transaction Set Control Number</b> Identifying control number that must be unique within the functional group assigned by the originator for a transaction			<b>4/9</b> set